

## **MELTER, APPLICATOR, ASPHALT SEALANT KETTLE**

### **General Specifications**

The U.S. Army, Cold Regions Test Center (CRTC) at Fort Greely, Alaska will use this kettle to service, maintain and repair the asphalt the surfaces of the CRTC Vehicle Test Facility. Due to the characteristics of asphalt in the extreme ambient temperatures at Fort Greely, Alaska, cracks develop in the track surfaces caused by expansion and contraction. These cracks need to be repaired to maintain the asphalt surface integrity for testing various types and sizes of vehicles.

This melter applicator kettle shall be a vertical design, oil jacketed, diesel gun fired burner, trailer mounted unit to be pulled and operated behind a service truck. The hydraulic and 24vdc hose heating system shall be driven by a diesel engine. The kettle tank shall have a minimum product capacity of 75 U.S. gallons. The heat transfer oil capacity shall be a minimum 28 U.S. gallons. The diesel fuel supply tank shall be a minimum of 25 U.S. gallons and the hydraulic tank shall be 10 gallons minimum. The heated product tank shall have a full sweep, hydraulic motor driven, agitator mounted vertically in the center. The agitator shall be variable speed and reversible through an operator controlled, flow control valve and have a shut down switch for loading product into the tank. The heated product shall be delivered by a hydraulic driven rotary gear positive displacement pump with 20 gpm capacity, flow reduced to a working variable volume of 0-4.1 gpm for operator controllability. The pump shall pump the product through a heated 1 inch, swivel, overhead delivery boom mounted on the left rear corner of the machine to allow a minimum of 74 inches clearance for operator mobility and 12 ft., 1" ID heated hose attached to a heated trigger style application wand. The application wand trigger shall control the pump function to eliminate unnecessary pump wear. The diesel engine shall have a minimum of hour meter, oil pressure and coolant temp gauges, automatic engine safety shutdown and glow plugs for starting in cold weather. Vendor shall supply the applicable amount of ISO 460 (550° F C.O.C. Flash Point) heat transfer oil with unit, estimate 30 gallons.

The trailer shall be welded steel tube constructed, equipped with a single, 3500 lb. rated axle, 205/75R15 load range C (minimum) tires, a pintle tow hitch, a yellow flashing beacon, trailer lights, electric (12 vdc) brakes, with a 6 pole round trailer connector.

All operators, service/repair and parts manual shall be included in contract. Parts manuals shall have the closest (to Fort Greely, Alaska) vendor names and phone numbers list in the front of the manual.

Delivery shall be FOB Destination to Fort Greely, Alaska and shall be included in bid price.